

MARKED UP VERSION OF CLAIMS

Claims 1-23 (Canceled)

Claim [[24]]1. (Amended) A vehicle suspension, comprising:
a lower arm having an inboard end and an outboard end;
an upper control arm having an inboard end and an outboard end;
an actuator comprising a drive mechanism and at least one actuator arm;
the actuator arm pivotally connected to the lower arm;
the actuator arm pivotally connected to the upper control arm; and
the drive mechanism connected to the actuator arm.

Claim [[25]]2. (Amended) The vehicle suspension of claim [[24]]1, further comprising:
a cammed cylinder in fluid communication with an actuation mechanism that at least partially controls the actuator arm;
wherein the actuator is motivily connected to at least one of the lower arm and the upper control arm by the actuator arm

Claim [[26]]3. (Amended) The vehicle suspension of claim [[25]]2, wherein the actuation mechanism comprises a mechanical shock absorber and an actuator line connects the cammed cylinder to the mechanical shock absorber.

Claim [[27]]4. (Amended) The vehicle suspension of claim [[24]]1, further comprising a mechanical shock absorber pivotally connected to the actuator arm.

Claim [[28]]5. (Amended) The vehicle suspension of claim [[27]]4, further comprising:
a cam member supported on the lower arm;
a cammed cylinder having a piston motivily coupled to the cam member; and
an actuator line connecting the cammed cylinder to the mechanical shock absorber.

Claim [[29]]6. (Amended) The vehicle suspension of claim [[24]]1, further comprising a mechanical link pivotally connected to the actuator arm.

Claim [[30]]7. (Amended) The vehicle suspension of claim [[24]]1, further comprising a hub assembly pivotally connected to the outboard ends of the lower arm and the upper control arm, wherein pivotal connections of the actuator arm, the lower arm, the upper control arm, and the hub assembly generally form a parallelogram.

Claim [[31]]8. (Amended) The vehicle suspension of claim [[24]]1, further comprising:
an actuator pump coupled to an actuator feed line;
wherein:

the actuator comprises a cylinder having a piston motively coupled to the actuator feed line;

one of the cylinder and the piston is supported on one of the lower arm and the upper control arm; and

the other of the piston and the cylinder is motively connected to the actuator arm.

Claim [[32]]9. (Amended) A frame and suspension for a vehicle, comprising:

a frame;

a lower arm having an inboard end coupled to the frame and an outboard end;

an upper control arm having an inboard end and an outboard end;

an actuator comprising a drive mechanism and at least one actuator arm;

the actuator arm pivotally connected to the lower arm;

the actuator arm pivotally connected to the upper control arm; and

the drive mechanism connected to the actuator arm.

Claim [[33]]10. (Amended) The frame and suspension for a vehicle of claim [[32]]9, further comprising:

a cammed cylinder having a piston in fluid communication with an actuation mechanism that at least partially controls the actuator arm;

wherein the actuator is motivily connected to at least one of the lower arm and the upper control arm by the actuator arm.

Claim [[34]]11. (Amended) The frame and suspension for a vehicle of claim [[33]]10, wherein the actuation mechanism comprises a mechanical shock absorber and the actuator line connects the cammed cylinder to the mechanical shock absorber.

Claim [[35]]12. (Amended) The frame and suspension for a vehicle of claim [[32]]9, further comprising a mechanical shock absorber pivotally connected to the actuator arm.

Claim [[36]]13. (Amended) The frame and suspension for a vehicle of claim [[35]]12, wherein the mechanical shock absorber is pivotally connected to the frame.

Claim [[37]]14. (Amended) The frame and suspension for a vehicle of claim [[35]]12, further comprising:

a cam member supported on the lower arm;
a cammed cylinder having a piston motivily coupled to the cam member; and
an actuator line connecting the cammed cylinder to the mechanical shock absorber.

Claim [[38]]15. (Amended) The frame and suspension for a vehicle of claim [[37]]14, wherein the cammed cylinder is supported on the frame.

Claim [[39]]16. (Amended) The frame and suspension for a vehicle of claim [[32]]9, further comprising a mechanical link pivotally connected to the actuator arm.

Claim [[40]]17. (Amended) The frame and suspension for a vehicle of claim [[39]]16, wherein the mechanical link is pivotally connected to the frame.

Claim [[41]]18. (Amended) The frame and suspension for a vehicle of claim [[32]]9, further comprising a hub assembly pivotally connected to the outboard ends of the lower arm and the upper control arm, wherein pivotal connections of the actuator arm, the lower arm, the upper control arm, and the hub assembly generally form a parallelogram.

Claim [[42]]19. (Amended) The frame and suspension for a vehicle of claim [[32]]9, further comprising a mechanical link pivotally connected to each of the actuator arm and the frame, wherein the parallelogram is a first parallelogram and pivotal connections between the mechanical link, the frame, the actuator arm, and the lower arm form a second parallelogram.

Claim [[43]]20. (Amended) The frame and suspension for a vehicle of claim [[32]]9, further comprising:

an actuator pump coupled to an actuator feed line;

wherein:

the actuator comprises a cylinder having a piston motively coupled to the actuator feed line;

one of the cylinder and the piston is supported on one of the lower arm and the upper control arm; and

the other of the piston and the cylinder is motively connected to the actuator arm.

Claim [[44]]21. (Amended) The frame and suspension for a vehicle of claim [[32]]9, wherein:

the frame is a vehicle frame;

the suspension comprises the lower arm, the upper control arm, the actuator arm, and the actuator as a first arm assembly; and

wherein the suspension further comprises at least a second arm assembly similar to the first arm assembly.

Claim [[45]]22. (Amended) The frame and suspension for a vehicle of claim [[44]]21, wherein each arm assembly includes a cammed cylinder fluidly connected to at least one mechanical shock absorber.

Claim [[46]]23. (Amended) The frame and suspension for a vehicle of claim [[45]]22, wherein the cammed cylinders have pistons that move therein to provide a greater or lesser effective volume for each shock absorber.

Claim [[47]]24. (Amended) The frame and suspension for a vehicle of claim [[46]]23, wherein the effective volume is decreased as the respective arm assembly is rotated through an arc toward the frame.

Claim [[48]]25. (Amended) The frame and suspension for a vehicle of claim [[46]]23, wherein the effective volume is decreased as the respective arm assembly is rotated through an arc away from the frame.